DLIR NETWOR – LOGICAL DIAGRAM

DLIR Network Environment

Current DLIR Network Environment (see Diagram 1: Current DLIR Network (DCD, EDP, ASO) (2/6/2017))

Currently, the DLIR Network of which UI's Host (172.16.X.X) and Internet (10.131.128.X) vLANs (virtual Local Area Network) is a part of consists of the following (2) 3-ESXi Host Clusters (EDP (Electronic Data Processing) and ASO (Administrative Services Office)), (2) SAS Switches, a Storewize 3700 SAN (Storage Area Network), and an IBM TS3200 tape library.

The EDP 3-Host Cluster manages and maintains DLIR's divisional servers including Unemployment Insurance (UI). The ASO 3-Host Cluster manages and maintains DLIR's applications (i.e. SQL servers, DocuShare, UI's SUTA, UI Axway Secured FTP, UI GEOSOL, various divisional databases.) All data is stored on the Storewize 3700 SAN on 18TB. Daily backup is stored to both the SAN and the IBM TS3200 Tape library. All divisions including UI are restricted from seeing other divisional information and applications unless authorized to do so.

DCD (Disability Compensation Division) has their own 3-ESXi Host Cluster that manages and maintains their data. They store and backup to a DS3524 SAN and IBM 8765 Tape backup unit.

The DLIR network (whether it is UI's Host or Internet vLANs) traffic goes through DLIR's core switch (Cisco 3750x) through the firewalls, and DMZ (De-Militarized Zone) before going to the Internet or Enterprise Technology Services' (ETS) mainframe (Host).

Future Planned DLIR Network Environment (See Diagram 2: Phase I - Versastack, and Diagram 3: Phase II - Consolidation)

Starting March 2017, Phase I will begin. DLIR will be configuring and installing the certified Cisco VersaStack which consists of (3) three ESXi blade hosts that are expandable to 6 blade hosts, fiber channel switches and a Storewize V7000 100TB SAN. DCD's vLAN will be migrated to the VersaStack and run parallel with EDP's and ASO's 3-Host Cluster. DCD's backup will done to the V7000 as well as the TS3200 Tape Library. EDP's and ASO's data will still go to the Storewize 3700 with backup to there and the TS3200 Tape library.

Phase II will begin in the 3rd quarter of 2017 thru 2018. DLIR's divisional servers will be migrated along with UI's to the DLIR VersaStack. All data will reside on the IBM V7000 SAN with backup to hard drive as well as the TS3200 Tape Library. The DLIR Storewize IBM 3700 SAN will be re-purposed for either replication, backups or archives.

The goal at this phase is to accomplish a centralized active directory (AD), shared resources, and reduced maintenance on physical hardware and software. The goal is to accomplish this migration by the end of 2018.